

## WEST Search History





DATE: Thursday, January 27, 2005

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<input type="checkbox"/>	L19	L18 and ((magnetic adj resonance) or MRI or NMR)	24
<input type="checkbox"/>	L18	L17 and (spiral or helix or helical\$2 or (curv\$4 with (trajectory or path or profile)))	50
<input type="checkbox"/>	L17	pauly.in.	992
<input type="checkbox"/>	L16	L15 and ((multiple or plurality or group or dual or triple or "more than one" or "multi") with (interecho or inter-echo))	17
<input type="checkbox"/>	L15	(interecho or inter-echo)	119
<input type="checkbox"/>	L14	20030016013	2
<input type="checkbox"/>	L13	US20030016013	0
<input type="checkbox"/>	L12	6646438	2
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<input type="checkbox"/>	L10	L9 and (III.in.)	8
<input type="checkbox"/>	L9	(Mugler.in.)	77
<input type="checkbox"/>	L8	(4549139  4549140  4599565  4604579  4979512  5202632  5239266  6037772)! [pn]	15
<input type="checkbox"/>	L7	L6 and (reedder.in.)	0
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<input type="checkbox"/>	L3	l2 and ((echo with planar) or "EPI")	0
<input type="checkbox"/>	L2	(4502007  4549139  4549140  5055787  5212447  5471141  5557201  5585720  5712566  5796252  6049205  6094048  6121774  6163153  6326785  6344744  6377042  6459263  6522136  6570382)! [pn]	37
<input type="checkbox"/>	L1	6646438	2

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Search Results - Record(s) 1 through 17 of 17 returned.

☐ 1. Document ID: US 20040222791 A1

Using default format because multiple data bases are involved.

L16: Entry 1 of 17

File: PGPB

Nov 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040222791

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040222791 A1

TITLE: Time-domain data integration of multiple gradient, multiple TE echo trains

PUBLICATION-DATE: November 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chen, Songhua	Katy	TX	US	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KUMC	Draw De
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☐ 2. Document ID: US 20040196038 A1

L16: Entry 2 of 17

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040196038

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040196038 A1

TITLE: Downhole NMR processing

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kruspe, Thomas	Wienhausen		DE	
Kiesl, Christian	Hannover		DE	
Thern, Holger	Hannover		DE	
Schrader, Hartmut	Nienhagen		DE	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 20040055745 A1

L16: Entry 3 of 17

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040055745

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040055745 A1

TITLE: Method and apparatus for combined NMR and formation testing for assessing relative permeability with formation testing and nuclear magnetic resonance testing

PUBLICATION-DATE: March 25, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Georgi, Dan	Houston	TX	US	
Kruspe, Thomas	Wienhausen		DE	
Meister, Matthias	Celle		DE	

US-CL-CURRENT: 166/250.02; 166/113

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 20040041562 A1

L16: Entry 4 of 17

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040041562

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040041562 A1

TITLE: Method for magnetic resonance fluid characterization

PUBLICATION-DATE: March 4, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Speier, Peter	Erlangen		DE	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 20030016013 A1

L16: Entry 5 of 17

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030016013  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030016013 A1

TITLE: NMR data acquisition with multiple interecho spacing

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kruspe, Thomas	Wienhausen		DE	
Blanz, Martin	Celle		DE	
Rottengatter, Peter	Isernhagen		DE	
Thern, Holger F.	Hannover		DE	

US-CL-CURRENT: 324/303; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 6. Document ID: US 20030006766 A1

L16: Entry 6 of 17

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030006766  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030006766 A1

TITLE: NMR data acquisition with multiple interecho spacing

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kruspe, Thomas	Wienhausen		DE	
Blanz, Martin	Celle		DE	
Rottengatter, Peter	Isernhagen		DE	
Thern, Holger	Hannover		DE	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 7. Document ID: US 20020153888 A1

L16: Entry 7 of 17

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020153888  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020153888 A1

TITLE: Downhole NMR processing

PUBLICATION-DATE: October 24, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kruspe, Thomas	Wienhausen		DE	
Kiesl, Christian	Hannover		DE	
Thern, Holger	Hannover		DE	
Schrader, Hartmut	Nienhagen		DE	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 8. Document ID: US 6727696 B2

L16: Entry 8 of 17

File: USPT

Apr 27, 2004

US-PAT-NO: 6727696

DOCUMENT-IDENTIFIER: US 6727696 B2

TITLE: Downhole NMR processing

DATE-ISSUED: April 27, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruspe; Thomas	Wienhausen			DE
Kiesl; Christian	Hannover			DE
Thern; Holger	Hannover			DE
Schrader; Hartmut	Nienhagen			DE

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 9. Document ID: US 6650114 B2

L16: Entry 9 of 17

File: USPT

Nov 18, 2003

US-PAT-NO: 6650114

DOCUMENT-IDENTIFIER: US 6650114 B2

TITLE: NMR data acquisition with multiple interecho spacing

DATE-ISSUED: November 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Kruspe; Thomas	Wienhausen	DE
Blanz; Martin	Celle	DE
Rottengatter; Peter	Isernhagen	DE
Thern; Holger F.	Hannover	DE

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 10. Document ID: US 6646438 B2

L16: Entry 10 of 17

File: USPT

Nov 11, 2003

US-PAT-NO: 6646438

DOCUMENT-IDENTIFIER: US 6646438 B2

TITLE: NMR data acquisition with multiple interecho spacing

DATE-ISSUED: November 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruspe; Thomas	Wienhausen			DE
Blanz; Martin	Celle			DE
Rottengatter; Peter	Isernhagen			DE
Thern; Holger F.	Hannover			DE

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 11. Document ID: US 6387955 B1

L16: Entry 11 of 17

File: USPT

May 14, 2002

US-PAT-NO: 6387955

DOCUMENT-IDENTIFIER: US 6387955 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Enhanced anti-angiogenic activity of permanently charged derivatives of steroid hormones

DATE-ISSUED: May 14, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Biegon; Anat	Tel Aviv			IL
Brewster; Marcus E.	Gainesville	FL		

US-CL-CURRENT: 514/643; 514/114, 514/642, 514/717, 514/718

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 12. Document ID: US 6377042 B1

L16: Entry 12 of 17

File: USPT

Apr 23, 2002

US-PAT-NO: 6377042

DOCUMENT-IDENTIFIER: US 6377042 B1

TITLE: Method and apparatus for merging of NMR echo trains in the time domain

DATE-ISSUED: April 23, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Menger; Stefan K.	Exton	PA		
Prammer; Manfred G.	Downingtown	PA		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 13. Document ID: US 6084408 A

L16: Entry 13 of 17

File: USPT

Jul 4, 2000

US-PAT-NO: 6084408

DOCUMENT-IDENTIFIER: US 6084408 A

TITLE: Methods for acquisition and processing of nuclear magnetic resonance signals for determining fluid properties in petroleum reservoirs having more than one fluid phase

DATE-ISSUED: July 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Songhua	Katy	TX		
Georgi; Daniel T.	Houston	TX		

US-CL-CURRENT: 324/303; 324/300, 335/296

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 14. Document ID: US 6083990 A

L16: Entry 14 of 17

File: USPT

Jul 4, 2000

US-PAT-NO: 6083990  
DOCUMENT-IDENTIFIER: US 6083990 A

TITLE: Enhanced anti-angiogenic activity of permanently charged derivatives of steroid hormones

DATE-ISSUED: July 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Biegon; Anat	Tel Aviv			IL
Brewster; Marcus E.	Gainesville	FL		

US-CL-CURRENT: 514/643; 564/282, 564/283

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D
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☐ 15. Document ID: US 6075362 A

L16: Entry 15 of 17

File: USPT

Jun 13, 2000

US-PAT-NO: 6075362  
DOCUMENT-IDENTIFIER: US 6075362 A

TITLE: Dual contrast fast spin echo with alternating phase-encode

DATE-ISSUED: June 13, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Loncar; Mark J.	Richmond Heights	OH		
Gullapalli; Rao P.	Richmond Heights	OH		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D
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☐ 16. Document ID: US 6069477 A

L16: Entry 16 of 17

File: DWPI

May 30, 2000

DERWENT-ACC-NO: 2000-386927  
DERWENT-WEEK: 200033  
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TITLE: Nuclear magnetic resource transverse relaxation time data processing method for use in oil well, involves correcting distortion of one echo train by using decay information derived from another echo train

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D
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☐ 17. Document ID: US 2810108 A

L16: Entry 17 of 17

File: USOC

Oct 15, 1957

US-PAT-NO: 2810108

DOCUMENT-IDENTIFIER: US 2810108 A

TITLE: Spin echo memory technique and apparatus

DATE-ISSUED: October 15, 1957

INVENTOR-NAME: GARWIN RICHARD L

US-CL-CURRENT: 324/320

Full	Title	Creation	Front	Review	Classification	Date	Reference			Claims	RMC	Drawings
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GROUPS	1233132
DUAL	445109
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Search Results - Record(s) 1 through 24 of 24 returned.

☐ 1. Document ID: US 20040258326 A1

Using default format because multiple data bases are involved.

L19: Entry 1 of 24

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040258326

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040258326 A1

TITLE: Partial k-space reconstruction for radial k-space trajectories in magnetic resonance imaging

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lee, Jin Hyung	Menlo Park	CA	US	
<u>Pauly</u> , John M.	Redwood City	CA	US	
Nishimura, Dwight G.	Palo Alto	CA	US	

US-CL-CURRENT: 382/280

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw De
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☐ 2. Document ID: US 20040254446 A1

L19: Entry 2 of 24

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040254446

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040254446 A1

TITLE: Functional magnetic resonance imaging using steady state free precession

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Miller, Karla L.	San Francisco	CA	US	
<u>Pauly</u> , John M.	Redwood City	CA	US	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw.D
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☐ 3. Document ID: US 20030215154 A1

L19: Entry 3 of 24

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030215154

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030215154 A1

TITLE: Method and apparatus for reconstruction of non-uniformly sampled data

PUBLICATION-DATE: November 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Pauly</u> , John Mark	Redwood City	CA	US	
Santos, Juan Manuel	Stanford	CA	US	
Wright, Graham Arnold	Toronto		CA	

US-CL-CURRENT: 382/254; 382/131, 382/279, 382/280

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw.D
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☐ 4. Document ID: US 20030011369 A1

L19: Entry 4 of 24

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030011369

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030011369 A1

TITLE: Moving table MRI with frequency-encoding in the z-direction

PUBLICATION-DATE: January 16, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brittain, Jean H.	Palo Alto	CA	US	
<u>Pauly</u> , John M.	Redwood City	CA	US	

US-CL-CURRENT: 324/309; 324/307, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw.D
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☐ 5. Document ID: US 20020143247 A1

L19: Entry 5 of 24

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020143247  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020143247 A1

TITLE: Method and apparatus of acquiring large FOV images without slab-boundary artifacts

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brittain, Jean Helen	Pewaukee	WI	US	
<u>Pauly</u> , John Mark	Redwood City	CA	US	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 6. Document ID: US 6806708 B1

L19: Entry 6 of 24

File: USPT

Oct 19, 2004

US-PAT-NO: 6806708  
DOCUMENT-IDENTIFIER: US 6806708 B1

TITLE: Multi-coil reconstruction of MRI signals using linear phase multiplied data with separate demodulators for each coil

DATE-ISSUED: October 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Jin Hyung	Menlo Park	CA		
<u>Pauly</u> ; John M.	Redwood City	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 6801034 B2

L19: Entry 7 of 24

File: USPT

Oct 5, 2004

US-PAT-NO: 6801034  
DOCUMENT-IDENTIFIER: US 6801034 B2

TITLE: Method and apparatus of acquiring large FOV images without slab-boundary artifacts

DATE-ISSUED: October 5, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brittain; Jean Helen	Pewaukee	WI		
<u>Pauly</u> ; John Mark	Redwood City	CA		

US-CL-CURRENT: 324/309; 324/318, 600/415, 600/425

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw D
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☐ 8. Document ID: US 6452387 B1

L19: Entry 8 of 24

File: USPT

Sep 17, 2002

US-PAT-NO: 6452387

DOCUMENT-IDENTIFIER: US 6452387 B1

**\*\* See image for Certificate of Correction \*\***TITLE: Catalyzing the transient response in steady-state MRI sequences

DATE-ISSUED: September 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hargreaves; Brain A.	Stanford	CA		
Vasanawala; Shreyas	Stanford	CA		
<u>Pauly</u> ; John M.	Redwood City	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/300; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw D
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☐ 9. Document ID: US 6404194 B1

L19: Entry 9 of 24

File: USPT

Jun 11, 2002

US-PAT-NO: 6404194

DOCUMENT-IDENTIFIER: US 6404194 B1

TITLE: Three dimensional magnetic resonance imaging using spiral trajectories in k-space

DATE-ISSUED: June 11, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Irarrazabal; Pablo	Stanford	CA		
<u>Pauly</u> ; John M.	San Francisco	CA		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 10. Document ID: US 6307368 B1

L19: Entry 10 of 24

File: USPT

Oct 23, 2001

US-PAT-NO: 6307368

DOCUMENT-IDENTIFIER: US 6307368 B1

TITLE: Linear combination steady-state free precession MRI

DATE-ISSUED: October 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vasanawala; Shreyas S.	Mountain View	CA		
<u>Pauly</u> ; John M.	Redwood City	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/309; 324/300, 324/307, 324/311

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 11. Document ID: US 6020739 A

L19: Entry 11 of 24

File: USPT

Feb 1, 2000

US-PAT-NO: 6020739

DOCUMENT-IDENTIFIER: US 6020739 A

TITLE: Rapid method of optimal gradient waveform design for MRI

DATE-ISSUED: February 1, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meyer; Craig H.	Mountain View	CA		
<u>Pauly</u> ; John M.	San Francisco	CA		

US-CL-CURRENT: 324/309; 324/300, 324/307, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 12. Document ID: US 5905377 A

L19: Entry 12 of 24

File: USPT

May 18, 1999

US-PAT-NO: 5905377

DOCUMENT-IDENTIFIER: US 5905377 A

TITLE: Method and apparatus for correcting gradient system and static magnetic field in magnetic resonance imaging

DATE-ISSUED: May 18, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kerr; Adam B.	Palo Alto	CA		
<u>Pauly</u> ; John M.	San Francisco	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 13. Document ID: US 5856744 A

L19: Entry 13 of 24

File: USPT

Jan 5, 1999

US-PAT-NO: 5856744

DOCUMENT-IDENTIFIER: US 5856744 A

TITLE: Method and apparatus for B.sub.0 eddy current compensation by B.sub.1 phase modulation

DATE-ISSUED: January 5, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Block; Walter F.	Palo Alto	CA		
Kerr; Adam B.	Palo Alto	CA		
<u>Pauly</u> ; John M.	San Francisco	CA		

US-CL-CURRENT: 324/309; 324/314

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 14. Document ID: US 5588431 A

L19: Entry 14 of 24

File: USPT

Dec 31, 1996

US-PAT-NO: 5588431

DOCUMENT-IDENTIFIER: US 5588431 A

TITLE: Inversion recovery MRI

DATE-ISSUED: December 31, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mani; Sanjay	Palo Alto	CA		
Nishimura; Dwight G.	Palo Alto	CA		
Conolly; Steven M.	Menlo Park	CA		
<u>Pauly</u> ; John M.	San Francisco	CA		

US-CL-CURRENT: 600/410; 324/307, 324/309, 324/312, 600/413, 600/419

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 15. Document ID: US 5499629 A

L19: Entry 15 of 24

File: USPT

Mar 19, 1996

US-PAT-NO: 5499629

DOCUMENT-IDENTIFIER: US 5499629 A

TITLE: Slice profile stabilization for segmented k-space magnetic resonance imaging

DATE-ISSUED: March 19, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kerr; Adam B.	Stanford	CA		
<u>Pauly</u> ; John M.	San Francisco	CA		

US-CL-CURRENT: 600/410; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 16. Document ID: US 5402067 A

L19: Entry 16 of 24

File: USPT

Mar 28, 1995

US-PAT-NO: 5402067

DOCUMENT-IDENTIFIER: US 5402067 A

TITLE: Apparatus and method for rare echo imaging using k-space spiral coverage

DATE-ISSUED: March 28, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Pauly</u> ; John M.	San Francisco	CA		
Spielman; Daniel M.	San Jose	CA		
Meyer; Craig H.	Palo Alto	CA		
Macovski; Albert	Menlo Park	CA		
Pelc; Norbert J.	Los Altos	CA		



US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 17. Document ID: US 5311132 A

L19: Entry 17 of 24

File: USPT

May 10, 1994

US-PAT-NO: 5311132

DOCUMENT-IDENTIFIER: US 5311132 A

TITLE: Method of enhancing the focus of magnetic resonance images

DATE-ISSUED: May 10, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Noll; Douglas C.	Pittsburgh	PA		
<u>Pauly</u> ; John M.	Menlo Park	CA		
Macovski; Albert	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 18. Document ID: US 5270653 A

L19: Entry 18 of 24

File: USPT

Dec 14, 1993

US-PAT-NO: 5270653

DOCUMENT-IDENTIFIER: US 5270653 A

TITLE: Selective three dimensional excitation for magnetic resonance applications

DATE-ISSUED: December 14, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 19. Document ID: US 5105152 A

L19: Entry 19 of 24

File: USPT

Apr 14, 1992

US-PAT-NO: 5105152

DOCUMENT-IDENTIFIER: US 5105152 A

TITLE: Magnetic resonance imaging and spectroscopy using a linear class of large tip-angle selective excitation pulses

DATE-ISSUED: April 14, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 20. Document ID: US 4985677 A

L19: Entry 20 of 24

File: USPT

Jan 15, 1991

US-PAT-NO: 4985677

DOCUMENT-IDENTIFIER: US 4985677 A

TITLE: Magnetic resonance imaging and spectroscopy using an excitation pulse for multiple-dimensional selectivity

DATE-ISSUED: January 15, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Pauly</u> ; John M.	Menlo Park	CA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 21. Document ID: US 6404194 B1

L19: Entry 21 of 24

File: DWPI

Jun 11, 2002

DERWENT-ACC-NO: 2002-573187

DERWENT-WEEK: 200261

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Three dimensional magnetic resonance imaging method in medical diagnosis, involves detecting magnetic resonance signals traversing k-space spiral trajectory through volume to be imaged to obtain three dimensional data set

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 22. Document ID: US 6020739 A

L19: Entry 22 of 24

File: DWPI

Feb 1, 2000

DERWENT-ACC-NO: 2000-194428

DERWENT-WEEK: 200017

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Spiral gradient waveform designing method for K-space trajectory in magnetic resonance imaging

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 23. Document ID: WO 9504946 A1, JP 08504655 W, US 5402067 A

L19: Entry 23 of 24

File: DWPI

Feb 16, 1995

DERWENT-ACC-NO: 1995-090986

DERWENT-WEEK: 199646

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Detection of magnetic resonance signals using K-space spiral coverage - producing long train of spin echoes using excitation pulse sequence and determining annular segment of k-space spiral from read-out magnetic gradients

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 24. Document ID: US 5270653 A

L19: Entry 24 of 24

File: DWPI

Dec 14, 1993

DERWENT-ACC-NO: 1993-405111

DERWENT-WEEK: 199350

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Selective three-dimensional excitation for magnetic resonance applications - applying several sub-pulses in presence of three orthogonal magnetic gradients over period of time

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
MAGNETIC	1467888
MAGNETICS	12784
RESONANCE	290151
RESONANCES	16902

MRI	26084
MRIS	369
NMR	142885
NMRS	247
(18 AND (MRI OR (MAGNETIC ADJ RESONANCE) OR NMR)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	24
(L18 AND ((MAGNETIC ADJ RESONANCE) OR MRI OR NMR) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	24

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## WEST Search History





DATE: Thursday, January 27, 2005

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L83	L80 and l69	41
<input type="checkbox"/>	L82	L80 and l70	13
<input type="checkbox"/>	L81	L80 and l73	13
<input type="checkbox"/>	L80	(L79 or l78 or l77)	16190
<input type="checkbox"/>	L79	(382/128-131.ccls.)	2145
<input type="checkbox"/>	L78	(600/407-435.ccls.)	7329
<input type="checkbox"/>	L77	(324/300-322.ccls.)	8050
<input type="checkbox"/>	L76	L70 and (Dixon)	0
<input type="checkbox"/>	L75	L69 and (Dixon)	3
<input type="checkbox"/>	L74	L73 and (Dixon)	0
<input type="checkbox"/>	L73	L72 and (pixel or voxel or element or volume or picture)	46
<input type="checkbox"/>	L72	L71 and (imag\$4 or representation or display\$3)	46
<input type="checkbox"/>	L71	L70 and (frequency or RF or Larmor or Larmour or (radio adj frequency) or radiofrequency or radio-frequency)	47
<input type="checkbox"/>	L70	L69 and ((estimat\$4 or guess\$4) with (map\$4 or plot\$4 or field or error or shift\$4))	57
<input type="checkbox"/>	L69	L68 and (error or difference or change or variation or shift or amount or estimat\$4 or guess\$4)	193
<input type="checkbox"/>	L68	L67 and (ghost\$3 or blur\$4 or alias\$3 or perturbat\$4 or distort\$4)	193
<input type="checkbox"/>	L67	L66 and (spiral\$2 or non-linear or nonlinear or archimed\$4 or (off with center\$3) or helix or helical\$2 or ((curv\$3 or rotat\$4) with (trajectory or path or profile)))	263
<input type="checkbox"/>	L66	L65 and (chemical\$3 or species or hydrogen or water or proton or fat\$2 or lipid\$4 or substance or substance or specimen or tissue or Dixon or suppress\$4)	464
<input type="checkbox"/>	L65	L64 and ((first or second or third or multiple or plurality or "more than one" or dual or triple or "delta") with (((echo or wait\$4 or repeat or repetition) with time) or "te" or "tr" or "WT"))	472
<input type="checkbox"/>	L64	L63 and (map\$4 or plot\$4)	1423
<input type="checkbox"/>	L63	L62 and (estimat\$4 or guess\$3)	1905
<input type="checkbox"/>	L62	L61 and (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw)	5037
<input type="checkbox"/>	L61	L1 and (inhomogeneity or inhomogenous or nonuniformit\$4 or non-uniformit\$4 or "non uniformit\$4" or spurious or non-resonant or (chemical with shift\$4) or ((off with resonan\$3) or off-resonan\$3) or susceptibil\$5 or	37228

	distort\$4 or artifact or artefact)	
<input type="checkbox"/>	L60 L59 and ((estimat\$4 or guess\$4) with (map\$4 or plot\$4 or field or error or shift\$4))	13
<input type="checkbox"/>	L59 L58 and (error or difference or change or variation or shift or amount or estimat\$4 or guess\$4)	61
<input type="checkbox"/>	L58 L57 and ((first or second or third or multiple or plurality or "more than one") with (((echo or wait\$4 or repeat or repetition) with time) or "te" or "tr" or "WT"))	61
<input type="checkbox"/>	L57 L56 and L1	220
<input type="checkbox"/>	L56 fetzner	245
<input type="checkbox"/>	L55 L54 and (heid.in.)	11
<input type="checkbox"/>	L54 vargas	1879
<input type="checkbox"/>	L53 L25 and (heid.in.)	2
<input type="checkbox"/>	L52 L27 and (heid.in.)	0
<input type="checkbox"/>	L51 L30 and (heid.in.)	0
<input type="checkbox"/>	L50 L49 and L47	18
<input type="checkbox"/>	L49 ((324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322).ccls.)	8050
<input type="checkbox"/>	L48 L47 and (inhomogeneity or inhomogenous or nonuniformit\$4 or non-uniformit\$4 or "non uniformit\$4")	24
<input type="checkbox"/>	L47 L46 and ((estimat\$4 or guess\$4) with (map\$4 or plot\$4 or field or error or shift\$4))	125
<input type="checkbox"/>	L46 L45 and (correct\$4 or compensat\$4 or fix\$3)	316
<input type="checkbox"/>	L45 L44 and (imag\$4)	330
<input type="checkbox"/>	L44 L43 and (ghost\$3 or blur\$4 or alias\$3 or perturbat\$4 or artifact or artefact)	356
<input type="checkbox"/>	L43 L42 and (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw)	1041
<input type="checkbox"/>	L42 L41 and (frequency or RF or Larmor or Larmour)	4964
<input type="checkbox"/>	L41 L40 and (error or difference or change or variation or shift or amount or estimat\$4 or guess\$4)	13281
<input type="checkbox"/>	L40 L39 and (species or hydrogen or water or proton or fat\$2 or lipid\$4 or substance or substance or specimen or tissue)	13376
<input type="checkbox"/>	L39 L38 and (spurious or non-resonant or chemical or shift\$4 or j-coupl\$4 or jcoupl\$4 or ((off with resonan\$3) or off-resonan\$3))	13908
<input type="checkbox"/>	L38 L37 and ((first or second or third or multiple or plurality or "more than one") with (((echo or wait\$4 or repeat or repetition) with time) or "te" or "tr" or "WT"))	17195
<input type="checkbox"/>	L37 L36 and (first or second or third or multiple or plurality or "more than one")	115343
<input type="checkbox"/>	L36 L1 and (((echo or wait\$4 or repeat or repetition) with time) or "te" or "tr" or "WT")	137632
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<input type="checkbox"/>	L34 L33 and L1	1

<input type="checkbox"/>	L33	(center\$4 with spiral).ti.	285
<input type="checkbox"/>	L32	L31 and ((estimat\$4) with (map\$4 or plot\$4 or field))	4
<input type="checkbox"/>	L31	L30 and (spiral\$2 or non-linear or nonlinear or archimed\$4 or interleav\$4) <i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i>	32
<input type="checkbox"/>	L30	L27 <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	47
<input type="checkbox"/>	L29	L1 and (pauley.in.)	2
<input type="checkbox"/>	L28	L27 and (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw)	12
<input type="checkbox"/>	L27	L1 and (pauly.in.)	85
<input type="checkbox"/>	L26	L16 and (pauly.in.)	8
<input type="checkbox"/>	L25	L16 and ((spiral\$2 or non-linear or nonlinear or archimed\$4) with (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw))	39
<input type="checkbox"/>	L24	L20 and ((spiral\$2 or non-linear or nonlinear or archimed\$4) with (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw))	3
<input type="checkbox"/>	L23	L22 and ((estimat\$4) with (map\$4 or plot\$4 or field))	29
<input type="checkbox"/>	L22	L21 and (estimat\$4)	105
<input type="checkbox"/>	L21	L20 and (chemical\$3 or species or hydrogen or water or proton or fat\$2 or lipid\$4 or substance or substance or specimen or tissue)	144
<input type="checkbox"/>	L20	L19 and (spurious or non-resonant or (chemical with shift\$4) or ((off with resonan\$3) or off-resonan\$3))	150
<input type="checkbox"/>	L19	L18 and (frequency or RF or Larmor or Larmour)	767
<input type="checkbox"/>	L18	L17 and (((echo or wait\$3) with time) or ("TE" or "WT" or "ET"))	1014
<input type="checkbox"/>	L17	L16 and (map\$4 or plot\$4)	1043
<input type="checkbox"/>	L16	L15 and (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw)	1763
<input type="checkbox"/>	L15	L1 and (spiral\$2 or non-linear or nonlinear or archimed\$4)	12342
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<input type="checkbox"/>	L13	L11 and (map\$4 or plot\$4)	16
<input type="checkbox"/>	L12	L11 and (map\$4 or plat\$4)	12
<input type="checkbox"/>	L11	L10 and (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw)	23
<input type="checkbox"/>	L10	L2 and (spiral or archimed\$4)	97
<input type="checkbox"/>	L9	L8 and (estimat\$4)	8
<input type="checkbox"/>	L8	L7 and (((echo or wait) with time) or ("TE" or "WT" or "ET"))	14
<input type="checkbox"/>	L7	L6 and (kspace and k-space and "k space" or "ky" or "ky" or "kz" or raw)	14
<input type="checkbox"/>	L6	L5 and (inhomogeneity or inhomogenous or nonuniformit\$4 or non-uniformit\$4 or "non uniformit\$4")	31
<input type="checkbox"/>	L5	L4 and (chemical\$3 or species or hydrogen or water or proton or fat\$2 or lipid\$4)	52
<input type="checkbox"/>	L4	L3 and (map\$4)	60
<input type="checkbox"/>	L3	L2 and (ghost\$3 or blur\$4 or alias\$3 or perturbat\$4)	192
<input type="checkbox"/>	L2	L1 and ((off with resonan\$3) or off-resonan\$3)	1064

☐ L1 ((magnetic adj resonance) or MRI or NMR)

195990

END OF SEARCH HISTORY



## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
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Search Results - Record(s) 1 through 13 of 13 returned.

☐ 1. Document ID: US 6833699 B2

Using default format because multiple data bases are involved.

L60: Entry 1 of 13

File: USPT

Dec 21, 2004

US-PAT-NO: 6833699

DOCUMENT-IDENTIFIER: US 6833699 B2

TITLE: Method for using conventional core data to calibrate bound water volumes derived from true vertical depth (TVD) indexing, in a borehole, of capillary pressure and NMR logs

DATE-ISSUED: December 21, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Galford; James E.	Missouri City	TX		
Marschall; David M.	Sugar Land	TX		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	De
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☐ 2. Document ID: US 6650114 B2

L60: Entry 2 of 13

File: USPT

Nov 18, 2003

US-PAT-NO: 6650114

DOCUMENT-IDENTIFIER: US 6650114 B2

TITLE: NMR data acquisition with multiple interecho spacing

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruspe; Thomas	Wienhausen			DE
Blanz; Martin	Celle			DE
Rottengatter; Peter	Isernhagen			DE
Thern; Holger F.	Hannover			DE

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 3. Document ID: US 6646438 B2

L60: Entry 3 of 13

File: USPT

Nov 11, 2003

US-PAT-NO: 6646438

DOCUMENT-IDENTIFIER: US 6646438 B2

TITLE: NMR data acquisition with multiple interecho spacing

DATE-ISSUED: November 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruspe; Thomas	Wienhausen			DE
Blanz; Martin	Celle			DE
Rottengatter; Peter	Isernhagen			DE
Thern; Holger F.	Hannover			DE

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 4. Document ID: US 6624629 B1

L60: Entry 4 of 13

File: USPT

Sep 23, 2003

US-PAT-NO: 6624629

DOCUMENT-IDENTIFIER: US 6624629 B1

TITLE: Optimizing characteristics of RF pulses used in NMR measurements

DATE-ISSUED: September 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Speier; Peter	Stafford	TX		
Luong; Bruno	Stafford	TX		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 5. Document ID: US 6559639 B2

L60: Entry 5 of 13

File: USPT

May 6, 2003

US-PAT-NO: 6559639  
DOCUMENT-IDENTIFIER: US 6559639 B2

TITLE: Estimating permeability without determinating a distribution of relaxation times

DATE-ISSUED: May 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Minh; Chanh Cao	Katy	TX		
Heaton; Nicholas J.	Houston	TX		
Sezginer; Abdurrahman	Houston	TX		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 6. Document ID: US 6541969 B2

L60: Entry 6 of 13

File: USPT

Apr 1, 2003

US-PAT-NO: 6541969  
DOCUMENT-IDENTIFIER: US 6541969 B2

TITLE: Method and apparatus for improving the vertical resolution of NMR logs

DATE-ISSUED: April 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sigal; Richard F.	Spring	TX		
Cherry; Ron	Kingwood	TX		
Day; Peter Ian	Houston	TX		
Galford; James Elmer	Missouri City	TX		
Bouton; John C.	Doylestown	PA		
Akkurt; Ridvan	Kingwood	TX		
Miller; Daniel Lee	Kingwood	TX		
Prammer; Manfred G.	Downingtown	PA		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 7. Document ID: US 6469506 B1

L60: Entry 7 of 13

File: USPT

Oct 22, 2002

US-PAT-NO: 6469506  
DOCUMENT-IDENTIFIER: US 6469506 B1

TITLE: Autocorrection of MR images acquired using phased-array coils

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Felmler; Joel P.	Rochester	MN		
McGee; Kiaran P.	Rochester	MN		
Ehman; Richard L.	Rochester	MN		
Manduca; Armando	Rochester	MN		

US-CL-CURRENT: 324/309; 324/307, 324/312

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 8. Document ID: US 6369567 B1

L60: Entry 8 of 13

File: USPT

Apr 9, 2002

US-PAT-NO: 6369567

DOCUMENT-IDENTIFIER: US 6369567 B1

TITLE: Nuclear magnetic resonance method and apparatus for determining pore characteristics of rocks and other porous materials

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Song; Yi-Qiao	Ridgefield	CT		
Ryu; Seungoh	Ridgefield	CT		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 9. Document ID: US 6316940 B1

L60: Entry 9 of 13

File: USPT

Nov 13, 2001

US-PAT-NO: 6316940

DOCUMENT-IDENTIFIER: US 6316940 B1

TITLE: System and method for identification of hydrocarbons using enhanced diffusion

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Akkurt; Ridvan Kingwood TX

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw D
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☐ 10. Document ID: US 6275037 B1

L60: Entry 10 of 13

File: USPT

Aug 14, 2001

US-PAT-NO: 6275037

DOCUMENT-IDENTIFIER: US 6275037 B1

TITLE: Removing discontinuities in MRI-space data

DATE-ISSUED: August 14, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harvey; Paul R.	Karkoor	37074		IL
Rotem; Haim	D.N. Mateh-Asher			IL

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw D
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☐ 11. Document ID: US 6271665 B1

L60: Entry 11 of 13

File: USPT

Aug 7, 2001

US-PAT-NO: 6271665

DOCUMENT-IDENTIFIER: US 6271665 B1

TITLE: Extra slice spin tagging (EST) magnetic resonance imaging for determining perfusion

DATE-ISSUED: August 7, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berr; Stuart S.	Batesville	VA	22924	
Mai; Vu Minh	Brighton	MA	02135	

US-CL-CURRENT: 324/306; 324/307, 324/309, 600/419

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw D
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☐ 12. Document ID: US 6166543 A

L60: Entry 12 of 13

File: USPT

Dec 26, 2000

US-PAT-NO: 6166543

DOCUMENT-IDENTIFIER: US 6166543 A

TITLE: Method and apparatus for measuring nuclear magnetic resonance

DATE-ISSUED: December 26, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sezginer; Abdurrahman	Houston	TX		
Sen; Pabitra N.	Ridgefield	CT		
Taherian; Mohammad Reza	Stafford	TX		
Sun; Boqin	Sugar Land	TX		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	Know	Draw	De
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☐ 13. Document ID: US 6069477 A

L60: Entry 13 of 13

File: USPT

May 30, 2000

US-PAT-NO: 6069477

DOCUMENT-IDENTIFIER: US 6069477 A

TITLE: Method for improving the accuracy of NMR relaxation distribution analysis with two echo trains

DATE-ISSUED: May 30, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Songhua	Katy	TX		
Georgi; Daniel T.	Houston	TX		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification
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## Hit List

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)  
[Generate OACS](#)

### Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20040110938 A1

Using default format because multiple data bases are involved.

L75: Entry 1 of 3

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110938

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040110938 A1

TITLE: Proteins, genes and their use for diagnosis and treatment of schizophrenia

PUBLICATION-DATE: June 10, 2004

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE- 47
Parekh, Rajesh Bhikhu	Near Wendlebury		GB	
Chandrasiri Herath, Herath Mudiyanse- Athula	Abingdon		GB	
Rohlf, Christian	Oxford		GB	
Terrett, Jonathan Alexander	Abingdon		GB	
Tyson, Kerry Louise	Reading		GB	

US-CL-CURRENT: 536/23.5; 435/320.1, 435/325, 435/6, 435/69.1, 530/350

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Draw Dg</a>
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☐ 2. Document ID: US 6754521 B2

L75: Entry 2 of 3

File: USPT

Jun 22, 2004

US-PAT-NO: 6754521

DOCUMENT-IDENTIFIER: US 6754521 B2

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: June 22, 2004

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Prince; Martin R.

Ann Arbor

MI

48105

US-CL-CURRENT: 600/420; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMC	Draw De
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☐ 3. Document ID: US 6741881 B2

L75: Entry 3 of 3

File: USPT

May 25, 2004

US-PAT-NO: 6741881

DOCUMENT-IDENTIFIER: US 6741881 B2

**\*\* See image for Certificate of Correction \*\***TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: May 25, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prince; Martin R.	Ann Arbor	MI	48105	

US-CL-CURRENT: 600/420; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMC	Draw De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
DIXON	30980
DIXONS	36
(DIXON AND 69).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3
(L69 AND (DIXON)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

Display Format: 

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## Hit List

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Generate OACS				

### Search Results - Record(s) 1 through 13 of 13 returned.

☐ 1. Document ID: US 20040260173 A1

Using default format because multiple data bases are involved.

L82: Entry 1 of 13

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260173 A1

TITLE: Optimized high-speed magnetic resonance imaging method and system using hyperpolarized noble gases

PUBLICATION-DATE: December 23, 2004

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Salerno, Michael	Palo Alto	CA	US	
Mugler III, John P.	Charlottesville	VA	US	
Brookeman, James R.	Charlottesville	VA	US	

US-CL-CURRENT: 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Dg
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☐ 2. Document ID: US 20040252870 A1

L82: Entry 2 of 13

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040252870

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040252870 A1

TITLE: System and method for three-dimensional image rendering and analysis

PUBLICATION-DATE: December 16, 2004

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reeves, Anthony P.	Ithaca	NY	US	
Kostis, William J.	Warren	NJ	US	
Henschke, Claudia	New York	NY	US	
Yankelevitz, David	Brooklyn	NY	US	

US-CL-CURRENT: 382/128; 382/154

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 20040227512 A1

L82: Entry 3 of 13

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040227512

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040227512 A1

TITLE: Systems and methods for estimating properties of a sample

PUBLICATION-DATE: November 18, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Twieg, Donald Baker	Birmingham	AL	US	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 20040071363 A1

L82: Entry 4 of 13

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040071363

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040071363 A1

TITLE: Methods for performing DAF data filtering and padding

PUBLICATION-DATE: April 15, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kouri, Donald J.	Bellaire	TX	US	
Hoffman, David K.	Missouri City	TX	US	
Kakadiaris, Ioannis A.	Houston	TX	US	
Shi, Zhuoer	Fayetteville	AR	US	
Zhang, DeSheng	Houston	TX	US	
Gunaratne, Gemunu H.	East Lansing	MI	US	
Arnold, Mark	Shaanxi		US	
Wang, Haixiang			US	
Wei, Guowei W.			US	
Bao, Zheng			CN	

US-CL-CURRENT: 382/276; 382/128, 382/254

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 20040044280 A1

L82: Entry 5 of 13

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040044280

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040044280 A1

TITLE: Methods & apparatus for magnetic resonance imaging

PUBLICATION-DATE: March 4, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Paley, Martyn	Keighly		GB	
Lee, Kuan	Sheffield		GB	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 6. Document ID: US 6603989 B1

L82: Entry 6 of 13

File: USPT

Aug 5, 2003

US-PAT-NO: 6603989

DOCUMENT-IDENTIFIER: US 6603989 B1

TITLE: T2 contrast in magnetic resonance imaging with gradient echoes

DATE-ISSUED: August 5, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yablonskiy; Dmitriy A.	Olivette	MO	63132	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 6566873 B1

L82: Entry 7 of 13

File: USPT

May 20, 2003

US-PAT-NO: 6566873

DOCUMENT-IDENTIFIER: US 6566873 B1

TITLE: Method of and apparatus for nuclear quadrupole resonance testing a sample

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; John Alec Sydney	London			GB
Peirson; Neil Francis	Northampton			GB

US-CL-CURRENT: 324/300; 324/314

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 8. Document ID: US 6337568 B1

L82: Entry 8 of 13

File: USPT

Jan 8, 2002

US-PAT-NO: 6337568

DOCUMENT-IDENTIFIER: US 6337568 B1

TITLE: System and method for enhanced vertical resolution magnetic resonance  
imaging logs

DATE-ISSUED: January 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tutunji; Tarek A.	Houston	TX	77082	
Hagiwara; Teruhiko	Houston	TX	77025	
Day; Peter Ian	Houston	TX	77030	

US-CL-CURRENT: 324/303; 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 9. Document ID: US 6320380 B1

L82: Entry 9 of 13

File: USPT

Nov 20, 2001

US-PAT-NO: 6320380

DOCUMENT-IDENTIFIER: US 6320380 B1

TITLE: MRI method and apparatus for increasing the efficiency of echo lanar imaging  
and other late echo techniques

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wu; Dee H.	Shaker Heights	OH		

Thompson; Michael R. Cleveland Heights OH

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 10. Document ID: US 5928146 A

L82: Entry 10 of 13

File: USPT

Jul 27, 1999

US-PAT-NO: 5928146

DOCUMENT-IDENTIFIER: US 5928146 A

TITLE: Inspection apparatus using nuclear magnetic resonance

DATE-ISSUED: July 27, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Itagaki; Hiroyuki	Kokubunji			JP
Okajima; Kenichi	Hachiouji			JP
Takahashi; Tetsuhiko	Souka			JP
Takiguchi; Kenji	Kashiwa			JP

US-CL-CURRENT: 600/410; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 11. Document ID: US RE35656 E

L82: Entry 11 of 13

File: USPT

Nov 11, 1997

US-PAT-NO: RE35656

DOCUMENT-IDENTIFIER: US RE35656 E

TITLE: Ultra-fast multi-section MRI using gradient and spin echo (GRASE) imaging

DATE-ISSUED: November 11, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feinberg; David A.	New York	NY		
Oshio; Koichi	Brookline	MA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 12. Document ID: US 5539310 A

L82: Entry 12 of 13

File: USPT

Jul 23, 1996

US-PAT-NO: 5539310

DOCUMENT-IDENTIFIER: US 5539310 A

TITLE: Method and system for measuring the diffusion tensor and for diffusion tensor imaging

DATE-ISSUED: July 23, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Basser; Peter J.	Washington	DC		
Mattiello; James H.	Falls Church	VA		
LeBihan; Denis	Rockville	MD		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 13. Document ID: US 5270654 A

L82: Entry 13 of 13

File: USPT

Dec 14, 1993

US-PAT-NO: 5270654

DOCUMENT-IDENTIFIER: US 5270654 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Ultra-fast multi-section MRI using gradient and spin echo (grase) imaging

DATE-ISSUED: December 14, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feinberg; David A.	Berkeley	CA	94708	
Oshio; Koichi	Brookline	MA	02146	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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Term	Documents
(80 AND 70).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	13
(L80 AND L70).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	13

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Search Results - Record(s) 1 through 41 of 41 returned.

☐ 1. Document ID: US 20040260173 A1

Using default format because multiple data bases are involved.

L83: Entry 1 of 41

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260173 A1

TITLE: Optimized high-speed magnetic resonance imaging method and system using hyperpolarized noble gases

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Salerno, Michael	Palo Alto	CA	US	
Mugler III, John P.	Charlottesville	VA	US	
Brookeman, James R.	Charlottesville	VA	US	

US-CL-CURRENT: 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Drawings
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☐ 2. Document ID: US 20040252870 A1

L83: Entry 2 of 41

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040252870

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040252870 A1

TITLE: System and method for three-dimensional image rendering and analysis

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reeves, Anthony P.	Ithaca	NY	US	
Kostis, William J.	Warren	NJ	US	
Henschke, Claudia	New York	NY	US	
Yankelevitz, David	Brooklyn	NY	US	



US-CL-CURRENT: 382/128; 382/154

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 3. Document ID: US 20040227512 A1

L83: Entry 3 of 41

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040227512

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040227512 A1

TITLE: Systems and methods for estimating properties of a sample

PUBLICATION-DATE: November 18, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Twieg, Donald Baker	Birmingham	AL	US	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 4. Document ID: US 20040210130 A1

L83: Entry 4 of 41

File: PGPB

Oct 21, 2004

PGPUB-DOCUMENT-NUMBER: 20040210130

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040210130 A1

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

PUBLICATION-DATE: October 21, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prince, Martin R.	Ann Arbor	MI	US	

US-CL-CURRENT: 600/420; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 5. Document ID: US 20040142496 A1

L83: Entry 5 of 41

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040142496

PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040142496 A1

TITLE: Methods for analysis of spectral data and their applications:  
atherosclerosis/coronary heart disease

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nicholson, Jeremy Kirk	London		GB	
Holmes, Elaine	London		GB	
Lindon, John Christopher	London		GB	
Brindle, Joanne Tracey	London		GB	
Grainger, David John	Cambridge		GB	

US-CL-CURRENT: 436/536; 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 6. Document ID: US 20040071363 A1

L83: Entry 6 of 41

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040071363  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040071363 A1

TITLE: Methods for performing DAF data filtering and padding

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kouri, Donald J.	Bellaire	TX	US	
Hoffman, David K.	Missouri City	TX	US	
Kakadiaris, Ioannis A.	Houston	TX	US	
Shi, Zhuoer	Fayetteville	AR	US	
Zhang, DeSheng	Houston	TX	US	
Gunaratne, Gemunu H.	East Lansing	MI	US	
Arnold, Mark	Shaanxi		US	
Wang, Haixiang			US	
Wei, Guowei W.			US	
Bao, Zheng			CN	

US-CL-CURRENT: 382/276; 382/128, 382/254

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 7. Document ID: US 20040068177 A1

L83: Entry 7 of 41

File: PGPB

Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040068177  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040068177 A1

TITLE: Method for imaging an artery using a magnetic resonance contrast agent

PUBLICATION-DATE: April 8, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prince, Martin R.	Ann Arbor	MI	US	

US-CL-CURRENT: 600/420; 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 8. Document ID: US 20040044280 A1

L83: Entry 8 of 41

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040044280  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040044280 A1

TITLE: Methods & apparatus for magnetic resonance imaging

PUBLICATION-DATE: March 4, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Paley, Martyn	Keighly		GB	
Lee, Kuan	Sheffield		GB	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 9. Document ID: US 20030163036 A1

L83: Entry 9 of 41

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030163036  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030163036 A1

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

PUBLICATION-DATE: August 28, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prince, Martin R.	Ann Arbor	MI	US	

US-CL-CURRENT: 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw D
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☐ 10. Document ID: US 20030132749 A1

L83: Entry 10 of 41

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030132749

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030132749 A1

TITLE: Detecting tool motion effects on nuclear magnetic resonance measurements

PUBLICATION-DATE: July 17, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Speier, Peter	Stafford	TX	US	
Poitzsch, Martin E.	Sugar Land	TX	US	
Crary, Steven F.	Sugar Land	TX	US	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw D
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☐ 11. Document ID: US 20020042569 A1

L83: Entry 11 of 41

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042569

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042569 A1

TITLE: Diffusion imaging of tissues

PUBLICATION-DATE: April 11, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wedeen, Van	Somerville	MA	US	

US-CL-CURRENT: 600/411; 324/307, 324/311, 324/312, 382/128, 382/133, 600/410,  
600/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 12. Document ID: US 20010034483 A1

L83: Entry 12 of 41

File: PGPB

Oct 25, 2001

PGPUB-DOCUMENT-NUMBER: 20010034483

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010034483 A1

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

PUBLICATION-DATE: October 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prince, Martin R.	Ann Arbor	MI	US	

US-CL-CURRENT: 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 13. Document ID: US 6754521 B2

L83: Entry 13 of 41

File: USPT

Jun 22, 2004

US-PAT-NO: 6754521

DOCUMENT-IDENTIFIER: US 6754521 B2

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prince, Martin R.	Ann Arbor	MI	48105	

US-CL-CURRENT: 600/420; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 14. Document ID: US 6741881 B2

L83: Entry 14 of 41

File: USPT

May 25, 2004

US-PAT-NO: 6741881

DOCUMENT-IDENTIFIER: US 6741881 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prince; Martin R.	Ann Arbor	MI	48105	

US-CL-CURRENT: 600/420; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 15. Document ID: US 6662038 B2

L83: Entry 15 of 41

File: USPT

Dec 9, 2003

US-PAT-NO: 6662038

DOCUMENT-IDENTIFIER: US 6662038 B2

TITLE: Method and apparatus for imaging abdominal aorta and aortic aneurysms

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prince; Martin R.	Ann Arbor	MI	48105	

US-CL-CURRENT: 600/420; 324/307, 324/309, 382/130, 600/410, 600/419

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 16. Document ID: US 6614226 B2

L83: Entry 16 of 41

File: USPT

Sep 2, 2003

US-PAT-NO: 6614226

DOCUMENT-IDENTIFIER: US 6614226 B2

TITLE: Diffusion imaging of tissues

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wedeen; Van	Somerville	MA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 17. Document ID: US 6603989 B1

L83: Entry 17 of 41

File: USPT

Aug 5, 2003

US-PAT-NO: 6603989

DOCUMENT-IDENTIFIER: US 6603989 B1

TITLE: T2 contrast in magnetic resonance imaging with gradient echoes

DATE-ISSUED: August 5, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yablonskiy; Dmitriy A.	Olivette	MO	63132	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 18. Document ID: US 6566874 B1

L83: Entry 18 of 41

File: USPT

May 20, 2003

US-PAT-NO: 6566874

DOCUMENT-IDENTIFIER: US 6566874 B1

TITLE: Detecting tool motion effects on nuclear magnetic resonance measurements

DATE-ISSUED: May 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Speier; Peter	Stafford	TX		
Poitzsch; Martin E.	Sugar Land	TX		
Crary; Steven F.	Sugar Land	TX		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 19. Document ID: US 6566873 B1

L83: Entry 19 of 41

File: USPT

May 20, 2003

US-PAT-NO: 6566873

DOCUMENT-IDENTIFIER: US 6566873 B1

TITLE: Method of and apparatus for nuclear quadrupole resonance testing a sample

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; John Alec Sydney	London			GB
Peirson; Neil Francis	Northampton			GB

US-CL-CURRENT: 324/300; 324/314

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 20. Document ID: US 6487435 B2

L83: Entry 20 of 41

File: USPT

Nov 26, 2002

US-PAT-NO: 6487435

DOCUMENT-IDENTIFIER: US 6487435 B2

**\*\* See image for Certificate of Correction \*\***

TITLE: Magnetic resonance angiography using undersampled 3D projection imaging

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mistretta; Charles A.	Madison	WI		
Barger; Andrew V.	Madison	WI		
Block; Walter F.	Madison	WI		

US-CL-CURRENT: 600/420; 324/307, 324/309, 600/407, 600/410, 600/415, 600/419

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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☐ 21. Document ID: US 6486667 B1

L83: Entry 21 of 41

File: USPT

Nov 26, 2002

US-PAT-NO: 6486667

DOCUMENT-IDENTIFIER: US 6486667 B1

TITLE: Combination of fluid-attenuated inversion-recovery complex images acquired using magnetic resonance imaging

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wu; Dee H.	Shaker Heights	OH		



Foxall; David L. Mentor OH  
Bearden; Francis H. Twinsburg OH

US-CL-CURRENT: 324/306; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 22. Document ID: US 6463318 B2

L83: Entry 22 of 41

File: USPT

Oct 8, 2002

US-PAT-NO: 6463318

DOCUMENT-IDENTIFIER: US 6463318 B2

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prince; Martin R.	Ann Arbor	MI	48105	

US-CL-CURRENT: 600/420; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 23. Document ID: US 6377048 B1

L83: Entry 23 of 41

File: USPT

Apr 23, 2002

US-PAT-NO: 6377048

DOCUMENT-IDENTIFIER: US 6377048 B1

TITLE: Magnetic resonance imaging device for operation in external static magnetic fields

DATE-ISSUED: April 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Golan; Erez	Tel Aviv			IL
Blank; Aharon	Kiriat Ono			IL
Alexandrowicz; Gil	Jerusalem			IL

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 24. Document ID: US 6337568 B1

L83: Entry 24 of 41

File: USPT

Jan 8, 2002

US-PAT-NO: 6337568

DOCUMENT-IDENTIFIER: US 6337568 B1

TITLE: System and method for enhanced vertical resolution magnetic resonance  
imaging logs

DATE-ISSUED: January 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tutunji; Tarek A.	Houston	TX	77082	
Hagiwara; Teruhiko	Houston	TX	77025	
Day; Peter Ian	Houston	TX	77030	

US-CL-CURRENT: 324/303; 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 25. Document ID: US 6320380 B1

L83: Entry 25 of 41

File: USPT

Nov 20, 2001

US-PAT-NO: 6320380

DOCUMENT-IDENTIFIER: US 6320380 B1

TITLE: MRI method and apparatus for increasing the efficiency of echo lanar imaging  
and other late echo techniques

DATE-ISSUED: November 20, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wu; Dee H.	Shaker Heights	OH		
Thompson; Michael R.	Cleveland Heights	OH		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 26. Document ID: US 6291996 B1

L83: Entry 26 of 41

File: USPT

Sep 18, 2001

US-PAT-NO: 6291996

DOCUMENT-IDENTIFIER: US 6291996 B1

TITLE: Apparatus for and method of determining values of relaxation parameters

DATE-ISSUED: September 18, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Glover; Paul Martin	Guildford			GB
Hill; Richard John	Aldershot			GB

US-CL-CURRENT: 324/309; 324/307, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUIC	Draw D
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☐ 27. Document ID: US 6289232 B1

L83: Entry 27 of 41

File: USPT

Sep 11, 2001

US-PAT-NO: 6289232

DOCUMENT-IDENTIFIER: US 6289232 B1

TITLE: Coil array autocalibration MR imaging

DATE-ISSUED: September 11, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jakob; Peter M.	Brookline Village	MA		
Sodickson; Daniel K.	Cambridge	MA		
Griswold; Mark	Brookline	MA		

US-CL-CURRENT: 600/410; 324/307, 324/309, 324/318, 324/322, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUIC	Draw D
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☐ 28. Document ID: US 6240311 B1

L83: Entry 28 of 41

File: USPT

May 29, 2001

US-PAT-NO: 6240311

DOCUMENT-IDENTIFIER: US 6240311 B1

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: May 29, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prince; Martin R.	Ann Arbor	MI	48105	

US-CL-CURRENT: 600/420; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 29. Document ID: US 6230041 B1

L83: Entry 29 of 41

File: USPT

May 8, 2001

US-PAT-NO: 6230041

DOCUMENT-IDENTIFIER: US 6230041 B1

TITLE: Method for imaging an artery using a magnetic resonance contrast agent

DATE-ISSUED: May 8, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prince; Martin R.	Ann Arbor	MI	48105	

US-CL-CURRENT: 600/420; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 30. Document ID: US 6073041 A

L83: Entry 30 of 41

File: USPT

Jun 6, 2000

US-PAT-NO: 6073041

DOCUMENT-IDENTIFIER: US 6073041 A

TITLE: Physiological corrections in functional magnetic resonance imaging

DATE-ISSUED: June 6, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hu; Xiaoping	St. Paul	MN		
Le; Tuong Huu	Dallas	TX		
Parrish; Todd B.	Minneapolis	MN		
Erhard; Peter W.	Gauting			DE

US-CL-CURRENT: 600/410; 324/309, 600/411, 600/509, 600/534

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 31. Document ID: US 5928146 A

L83: Entry 31 of 41

File: USPT

Jul 27, 1999

US-PAT-NO: 5928146

DOCUMENT-IDENTIFIER: US 5928146 A

TITLE: Inspection apparatus using nuclear magnetic resonance

DATE-ISSUED: July 27, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Itagaki; Hiroyuki	Kokubunji			JP
Okajima; Kenichi	Hachiouji			JP
Takahashi; Tetsuhiko	Souka			JP
Takiguchi; Kenji	Kashiwa			JP

US-CL-CURRENT: 600/410; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw De
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☐ 32. Document ID: US 5799649 A

L83: Entry 32 of 41

File: USPT

Sep 1, 1998

US-PAT-NO: 5799649

DOCUMENT-IDENTIFIER: US 5799649 A

TITLE: Method for imaging abdominal aorta and aortic aneurysms

DATE-ISSUED: September 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prince; Martin R.	Ann Arbor	MI	48105	

US-CL-CURRENT: 600/420; 600/419, 600/431, 600/432

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw De
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☐ 33. Document ID: US 5792056 A

L83: Entry 33 of 41

File: USPT

Aug 11, 1998

US-PAT-NO: 5792056

DOCUMENT-IDENTIFIER: US 5792056 A

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prince; Martin R.	Ann Arbor	MI	48105	

US-CL-CURRENT: 600/420; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	De
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☐ 34. Document ID: US RE35656 E

L83: Entry 34 of 41

File: USPT

Nov 11, 1997

US-PAT-NO: RE35656

DOCUMENT-IDENTIFIER: US RE35656 E

TITLE: Ultra-fast multi-section MRI using gradient and spin echo (GRASE) imaging

DATE-ISSUED: November 11, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feinberg; David A.	New York	NY		
Oshio; Koichi	Brookline	MA		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	De
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☐ 35. Document ID: US 5621321 A

L83: Entry 35 of 41

File: USPT

Apr 15, 1997

US-PAT-NO: 5621321

DOCUMENT-IDENTIFIER: US 5621321 A

TITLE: Magnetic resonance scan calibration method for ultra-fast image acquisition

DATE-ISSUED: April 15, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liu; Haiying	Euclid	OH		
Gullapalli; Rao P.	Richmond Heights	OH		
Loncar; Mark J.	Richmond Heights	OH		
DeMeester; Gordon D.	Wickliffe	OH		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	De
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☐ 36. Document ID: US 5590654 A

L83: Entry 36 of 41

File: USPT

Jan 7, 1997

US-PAT-NO: 5590654  
DOCUMENT-IDENTIFIER: US 5590654 A

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: January 7, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prince; Martin R.	Ann Arbor	MI	48105	

US-CL-CURRENT: 600/420; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 37. Document ID: US 5579767 A

L83: Entry 37 of 41

File: USPT

Dec 3, 1996

US-PAT-NO: 5579767  
DOCUMENT-IDENTIFIER: US 5579767 A

TITLE: Method for imaging abdominal aorta and aortic aneurysms

DATE-ISSUED: December 3, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prince; Martin R.	Ann Arbor	MI	48105	

US-CL-CURRENT: 600/420; 600/419

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 38. Document ID: US 5539310 A

L83: Entry 38 of 41

File: USPT

Jul 23, 1996

US-PAT-NO: 5539310  
DOCUMENT-IDENTIFIER: US 5539310 A

TITLE: Method and system for measuring the diffusion tensor and for diffusion tensor imaging

DATE-ISSUED: July 23, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Basser; Peter J.	Washington	DC		

Mattiello; James H. Falls Church VA  
LeBihan; Denis Rockville MD

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 39. Document ID: US 5371368 A

L83: Entry 39 of 41

File: USPT

Dec 6, 1994

US-PAT-NO: 5371368

DOCUMENT-IDENTIFIER: US 5371368 A

TITLE: Ultrafast optical imaging of objects in a scattering medium

DATE-ISSUED: December 6, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alfano; Robert R.	Bronx	NY	10463	
Ho; Ping-Pei	Great Neck	NY	11020	
Wang; Leming	Flushing	NY	11365	

US-CL-CURRENT: 250/341.1; 250/358.1, 600/425, 600/473

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 40. Document ID: US 5270654 A

L83: Entry 40 of 41

File: USPT

Dec 14, 1993

US-PAT-NO: 5270654

DOCUMENT-IDENTIFIER: US 5270654 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Ultra-fast multi-section MRI using gradient and spin echo (grase) imaging

DATE-ISSUED: December 14, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feinberg; David A.	Berkeley	CA	94708	
Oshio; Koichi	Brookline	MA	02146	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. De
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☐ 41. Document ID: US 4910460 A

L83: Entry 41 of 41

File: USPT

Mar 20, 1990

US-PAT-NO: 4910460

DOCUMENT-IDENTIFIER: US 4910460 A

TITLE: Method and apparatus for mapping eddy currents in magnetic resonance imaging

DATE-ISSUED: March 20, 1990

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sebok; David A.	Plainsboro	NJ		

US-CL-CURRENT: 324/307; 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUM	Drawn De
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Term	Documents
(80 AND 69).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	41
(L80 AND L69).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	41

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